



6692 sequencesST25.txt
SEQUENCE LISTING

<110> Novo Nordisk A/S

<120> Novel GLP-1 derivatives

<130> 6692-WO

<160> 5

<170> PatentIn version 3.1

<210> 1

<211> 31

<212> PRT

<213> Homo sapiens

<400> 1

His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr
Leu Glu Gly
1 5 10
15

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Gln	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Trp	Leu	Val	Lys	Gly
Arg	Gly											
			20					25				30

<210> 2

<211> 40

<212> PRT

<213> Synthetic construct

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> Xaa at position 1 is L-histidine, D-histidine, desamino-histidine, 2-amino-histidine, beta-hydroxy-histidine, homohistidine, N-alpha-acetyl-histidine, alpha-fluoromethyl-histidine, alpha-methyl-histidine, 3-pyridylalanine, 2-pyridylalanine, or 4-pyridylalanine.

<220>

<221> MISC_FEATURE

<222> (2)..(2)

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<223> xaa at position 2 is Ala, Gly, Val, Leu, Ile,
Lys, Aib, (1-aminocyclopropyl) carboxylic acid,
(1-aminocyclobutyl) carboxylic acid,
(1-aminocyclopentyl) carboxylic acid,
(1-aminocyclohexyl) carboxylic acid, (1-aminocycloheptyl) carboxylic acid
or (1-aminocyclooctyl) carboxylic acid.

<220>

<221> MISC_FEATURE

<222> (10)..(10)

<223> xaa at position 10 is Val or Leu.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> xaa at position 12 is Ser, Lys or Arg.

<220>

<221> MISC_FEATURE

<222> (13)..(13)

<223> xaa at position 13 is Tyr or Gln.

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<222> (14)..(14)

<223> Xaa at position 14 is Leu or Met.

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<221> MISC_FEATURE

<222> (16)..(16)

<223> Xaa at position 16 is Gly, Glu or Aib.

<220>

<221> MISC_FEATURE

<222> (17)..(17)

<223> Xaa at position 17 is Gln, Glu, Lys or Arg.

<220>

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<222> (19)..(19)

<223> Xaa at position 19 is Ala or Val.

6692 sequencesST25.txt

<220>

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<222> (20)..(20)

<223> Xaa at position 20 is Lys, Glu or Arg.

<220>

<221> MISC_FEATURE

<222> (21)..(21)

<223> Xaa at position 21 is Glu or Leu.

<220>

<221> MISC_FEATURE

<222> (24)..(24)

<223> Xaa at position 24 is Ala, Glu or Arg.

<220>

<221> MISC_FEATURE

<222> (27)..(27)

<223> Xaa at position 27 is Val or Lys.

<220>

6692 sequencesST25.txt

<221> MISC_FEATURE

<222> (28)..(28)

<223> Xaa at position 28 is Lys, Glu, Asn or Arg.

<220>

<221> MISC_FEATURE

<222> (29)..(29)

<223> Xaa at position 29 is Gly or Aib.

<220>

<221> MISC_FEATURE

<222> (30)..(30)

<223> Xaa at position 30 is Arg, Gly or Lys.

<220>

<221> MISC_FEATURE

<222> (31)..(31)

<223> Xaa at position 31 is Gly, Ala, Glu, Pro, Lys,
amide or is absent

6692 sequencesST25.txt

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<222> (32)..(32)

<223> Xaa at position 32 is Lys, Ser, amide or is absent.

<220>

<221> MISC_FEATURE

<222> (33)..(33)

<223> Xaa at position 33 is Ser, Lys, amide or is absent.

<220>

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<222> (34)..(34)

<223> Xaa at position 34 is Gly, amide or is absent.

<220>

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<222> (35)..(35)

<223> Xaa at position 35 is Ala, amide or is absent.

6692 sequencesST25.txt

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<222> (36)..(36)

<223> Xaa at position 36 is Pro, amide or is absent.

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<221> MISC_FEATURE

<222> (37)..(37)

<223> Xaa at position 37 is Pro, amide or is absent.

<220>

<221> MISC_FEATURE

<222> (38)..(38)

<223> Xaa at position 38 is Pro, amide or is absent.

<220>

<221> MISC_FEATURE

<222> (39)..(39)

<223> Xaa at position 39 is Ser, amide or is absent.

6692 sequencesST25.txt

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<222> (40)..(40)

<223> xaa at position 40 is amide or is absent.

<400> 2

Xaa	Xaa	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Xaa	Ser	Xaa	Xaa
Xaa	Glu	Xaa										
1				5				10				
15												

Xaa	Ala	Xaa	Xaa	Xaa	Phe	Ile	Xaa	Trp	Leu	Xaa	Xaa	Xaa
Xaa	Xaa	Xaa										
			20					25				30

Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
		35					40

<210> 3

<211> 32

<212> PRT

<213> Synthetic construct

<220>

<221> MISC_FEATURE

6692 sequencesST25.txt

<222> (1)..(1)

<223> Xaa at position 1 is L-histidine, D-histidine, desamino-histidine, 2-amino-histidine, beta-hydroxy-histidine, homohistidine, N-alpha-acetyl-histidine, alpha-fluoromethyl-histidine, alpha-methyl-histidine, 3-pyridylalanine, 2-pyridylalanine, or 4-pyridylalanine.

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa at position 2 is Ala, Gly, Val, Leu, Ile, Lys, Aib, (1-aminocyclopropyl) carboxylic acid, (1-aminocyclobutyl) carboxylic acid, (1-aminocyclopentyl) carboxylic acid, (1-aminocyclohexyl) carboxylic acid, (1-aminocycloheptyl) carboxylic acid or (1-aminocyclooctyl) carboxylic acid.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa at position 12 is Ser, Lys or Arg.

6692 sequencesST25.txt

<220>

<221> MISC_FEATURE

<222> (16)..(16)

<223> Xaa at position 16 is Gly, Glu or Aib.

<220>

<221> MISC_FEATURE

<222> (17)..(17)

<223> Xaa at position 17 is Gln, Gly, Lys or Arg.

<220>

<221> MISC_FEATURE

<222> (20)..(20)

<223> Xaa at position 20 is Lys, Glu or Arg.

<220>

<221> MISC_FEATURE

<222> (24)..(24)

<223> Xaa at position 24 is Ala, Glu or Arg.

6692 sequencesST25.txt

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<221> MISC_FEATURE

<222> (28)..(28)

<223> Xaa at position 28 is Lys, Glu or Arg.

<220>

<221> MISC_FEATURE

<222> (29)..(29)

<223> Xaa at position 29 is Gly or Aib.

<220>

<221> MISC_FEATURE

<222> (30)..(30)

<223> Xaa at position 30 is Arg or Lys..

<220>

<221> MISC_FEATURE

<222> (31)..(31)

<223> Xaa at position 31 is Gly, Ala, Glu or Lys.

6692 sequencesST25.txt

<220>

<221> MISC_FEATURE

<222> (32)..(32)

<223> Xaa at position 32 is Lys, amide or is absent.

<400> 3

Xaa	Xaa	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Val	Ser	Xaa	Tyr
Leu	Glu	Xaa										
1				5					10			
15												

Xaa	Ala	Ala	Xaa	Glu	Phe	Ile	Xaa	Trp	Leu	Val	Xaa	Xaa
Xaa	Xaa	Xaa										
			20					25				30

<210> 4

<211> 39

<212> PRT

<213> Gila monster

<220>

<221> MISC_FEATURE

<222> (39)..(39)

<223> Amidation of carboxy group.

6692 sequencesST25.txt

<400> 4

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln
Met Glu Glu
1 5 10
15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly
Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 5

<211> 44

<212> PRT

<213> synthetic construct

<220>

<221> MISC_FEATURE

<222> (44)..(44)

<223> Amidation of carboxy group.

6692 sequencesST25.txt

<400> 5

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln
 Met Glu Glu
 1 5 10
 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly
 Gly Pro Ser
 20 25 30

Ser Gly Ala Pro Pro Ser Lys Lys Lys Lys Lys Lys
 35 40